Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-33. (Canceled)

34. (New) A method of modulating development in a plant, the method comprising:

introducing into a plant an expression cassette comprising a promoter operably linked to a DMT polynucleotide, or a complement thereof, encoding a polypeptide at least 80% identical to SEQ ID NO:2, wherein the modulated development comprises:

(a) modulation of organ identity;

(b) modulation of organ number;

(c) modulation of meristem size;

(d) a delay in flowering;

(e) modulation of methylation of chromosomal DNA in the plant; or

(f) modulation of expression of the MEDEA gene of the plant.

35. (New) The method of claim 34, wherein the polypeptide comprises SEQ ID NO: 2.

36. (New) The method of claim 34, wherein the polynucleotide sequence comprises SEQ ID NO:5.

37. (New) The method of claim 34, wherein the polynucleotide sequence comprises SEQ ID NO:1.

38. (New) The method of claim 34, wherein the promoter is a constitutive promoter.

39. (New) The method of claim 34, wherein the promoter is a tissue-specific promoter.

40. (New) The method of claim 34, wherein organ identity is modulated.

41. (New) The method of claim 34, wherein organ number is modulated.

42. (New) The method of claim 34, wherein meristem size is modulated.

43. (New) The method of claim 34, wherein the delay in flowering is increased by expressing the polypeptide in the plant.

44. (New) The method of claim 34, wherein methylation of chromosomal DNA in the plant is modulated.

45. (New) The method of claim 34, wherein expression of the MEDEA gene of the plant is modulated.

46. (New) The method of claim 34, wherein introduction of the expression cassette results in decreased endogenous expression of a DMT polynucleotide in the plant.